AMENDMENTS TO CLAIMS

1. (Currently Amended) An apparatus for replicating a secondary volume of a mirrored volume pair, the apparatus comprising:

a mirror module configured to suspend mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field;

a volume identification module configured to <u>copy the suspend-time</u> <u>secondary volume identifier for the secondary volume to a hidden field on the secondary volume and associate the secondary volume with a selected volume identifier;</u>

a data replication module configured to copy a volume to a backup volume; and

the volume identification module further configured to associate the suspend-time secondary volume identifier with a backup volume.

- 2. (Cancelled).
- 3. (Currently Amended) The apparatus of claim 12, wherein the volume identification module is configured to copy the hidden field to the backup volume identifier field.
- 4. (Currently Amended) The apparatus of claim <u>12</u>, wherein the data replication module is further configured to bring the secondary volume online.
- 5. (Original) The apparatus of claim 1, wherein the mirror module is further configured to reestablish mirroring operations between the primary volume and the secondary volume.

- 6. (Original) The apparatus of claim 1, wherein the mirror module is further configured to resynchronize the secondary volume with the primary volume.
- 7. (Original) The apparatus of claim 1, wherein the selected volume identifier is a unique volume identifier.
- 8. (Currently Amended) A system for replicating a secondary volume of a mirrored volume pair, the system comprising:
 - a host configured to read and write data;
 - a primary storage system in communication with the host, the primary storage system having a primary volume;
 - a secondary storage system configured to mirror data on the primary storage system using a secondary volume, the secondary volume having a suspend-time volume identifier within a volume identifier field;
 - a backup system configured to replicate an online volume to a backup volume;
 - a secondary volume replication module configured to suspend a mirroring operation, save the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume, associate the secondary volume with a selected identifier, copy the secondary volume to the backup volume, and associate the suspend-time secondary volume identifier with the backup volume.
 - 9. (Cancelled).

- 10. (Currently Amended) The system of claim <u>89</u>, wherein the secondary volume replication module is further configured to copy the hidden field to the backup volume identifier field.
- 11. (Original) The system of claim 8, wherein the secondary volume replication module is further configured to bring the secondary volume online.
- 12. (Original) The system of claim 8, wherein the secondary volume replication module is further configured to reestablish mirroring operations between the primary volume and the secondary volume.
- 13. (Original) The system of claim 8, wherein the secondary volume replication module is further configured to resynchronize the secondary volume with the primary volume.
- 14. (Currently Amended) A computer readable storage medium comprising computer readable code configured to carry out a method for replicating a secondary volume of a mirrored volume pair, the method comprising:

suspending mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field;

copying the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume;

associating the secondary volume with a selected volume identifier; replicating the secondary volume to a backup volume; and

associating the suspend-time secondary volume identifier with the backup volume.

- 15. (Cancelled).
- 16. (Currently Amended) The computer readable storage medium of claim <u>1415</u>, wherein associating the suspend-time secondary volume identifier with the backup volume comprises copying the hidden field contents to a backup volume identifier field.
- 17. (Previously Presented) The computer readable storage medium of claim 14, further comprising bringing the secondary volume online.
- 18. (Original) The computer readable storage medium of claim 14, further comprising reestablishing mirroring operations between the primary volume and the secondary volume.
- 19. (Original) The computer readable storage medium of claim 18, wherein reestablishing mirroring operations further comprises resynchronizing the secondary volume with the primary volume.
- 20. (Original) The computer readable storage medium of claim 18, wherein the operations of suspending mirroring operations, associating the secondary volume with a selected identifier, bringing the secondary volume online, replicating the secondary volume to a backup volume, associating the suspend-time secondary volume identifier with the backup volume, and reestablishing mirroring operations between the primary volume and the secondary volume are performed as an automated sequence responsive to a single input stimuli.

- 21. (Original) The computer readable storage medium of claim 14, wherein associating the secondary volume with a selected volume identifier comprises overwriting the secondary volume identifier field with the selected volume identifier.
- 22. (Currently Amended) A method for replicating a secondary volume of a mirrored volume pair, the method comprising:

suspending mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field;

copying the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume;

associating the secondary volume with a selected volume identifier; replicating the secondary volume to a backup volume; and associating the suspend-time secondary volume identifier with the backup volume.

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- 23. (Cancelled).
- 24. (Currently Amended) The method of claim <u>2223</u>, wherein associating the suspend-time secondary volume identifier with the backup volume comprises copying the hidden field contents to the backup volume identifier field.
- 25. (Original) The method of claim 22, further comprising bringing the secondary volume online.

- 26. (Original) The method of claim 22, further comprising reestablishing mirroring operations between the primary volume and the secondary volume.
- 27. (Original) The method of claim 26, wherein reestablishing mirroring operations further comprises resynchronizing the secondary volume with the primary volume.
- 28. (Original) The method of claim 26, wherein the operations of suspending mirroring operations, associating the secondary volume with a selected identifier, bringing the secondary volume online, replicating the secondary volume to a backup volume, associating the suspend-time secondary volume identifier to the backup volume, and reestablishing mirroring operations between the primary volume and the secondary volume are performed as an automated sequence responsive to a single input stimuli.
- 29. (Original) The method of claim 22, wherein the selected volume identifier is a unique volume identifier.
- 30. (Currently Amended) An apparatus for replicating a secondary volume of a mirrored volume pair, the apparatus comprising:

means for suspending mirroring operations between a primary volume and a secondary volume, each volume comprising a suspend-time volume identifier within a volume identifier field;

means for copying the suspend-time secondary volume identifier for the secondary volume to a hidden field on the secondary volume;

means for associating the secondary volume with a selected volume identifier;

means for replicating the secondary volume to a backup volume; and means for associating the suspend-time secondary volume identifier with the backup volume.